

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 668232830 Component Make: NORTHERN LIGHTS Component Model: MP668M Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT GENERATOR Sump Capacity: 5 Quarts
 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 104 WEST PALM BEACH FL 33409 561-684-7799		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50992	5/10/2024	1000	100	15W40	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.									

Wear Metals(ppm)		Contaminant Metals (ppm)		Multi-Source Metals (ppm)		Additives (ppm)			
Sample ID	50992	Iron	<2	Sodium	<2	Titanium	X	Calcium	X
		Aluminum	<2	Silicon	<2	Molybdenum	6	Magnesium	X
		Copper	4	Vanadium	X	Nickel	X	Boron	X
		Lead	<2	Tin	<2	Potassium	<2	Manganese	X
		Chromium	<2	Lead	<2	Sulfur	<2	Zinc	X
		Iron	<2	Vanadium	X	Phosphorus	X	Barium	X

Contaminants		Physical Properties	
Sample ID	50992	Fuel	-
		Soot	0.2
		Water	<0.1
		Glycol	-
		Nitration	<2.0
		TBN	9.6
		Oxidation	3.8
		V40C	109
		V100C	14.4
		VIndex	135
		V40C Limit	92 - 124
		V100C Limit	12.5 - 16.3
		Visc Mode	C

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 668235839 Component Make: NORTHERN LIGHTS Component Model: MP668H Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD GENERATOR Sump Capacity: 5 Quarts
 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 104 WEST PALM BEACH FL 33409 561-684-7799		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50993	5/10/2024	1000	100	15W40	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: LEAD LEVEL (BEARINGS) HIGH. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION.									

		Wear Metals(ppm)			Contaminant Metals (ppm)			Multi-Source Metals (ppm)			Additives (ppm)																												
Sample ID	50993	Iron	<2	Aluminum	<2	Copper	4	Lead	28	Tin	<2	Vanadium	X	Silicon	2	Sodium	<2	Potassium	<2	Titanium	X	Molybdenum	7	Nickel	X	Manganese	X	Boron	X	Magnesium	X	Calcium	X	Barium	X	Phosphorus	X	Zinc	X

		Contaminants		Physical Properties	
Sample ID	50993	Fuel	-	Visc Mode	C
		Soot	0.2	V100C Limit	12.5 - 16.3
		Water	<0.1	V40C Limit	92 - 124
		Glycol	-	VIndex	135
		Nitration	<2.0	V100C	14.4
		TBN	9.7	V40C	109
		Oxidation	3.5		

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 535105760 Component Make: MTU Component Model: 12V2000 CR Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT MAIN Sump Capacity: 5 Quarts
 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 104 WEST PALM BEACH FL 33409 561-684-7799		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50994	5/10/2024	1000	100	15W40	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: ALL ENGINE WEAR RATES NORMAL. SODIUM LEVEL HIGHER THAN TYPICAL, CHECK FOR SOURCE OF COOLANT AND/OR SALT WATER LEAK.									

Wear Metals(ppm)		Contaminant Metals (ppm)		Multi-Source Metals (ppm)		Additives (ppm)																																			
Sample ID	50994	Iron	3	Sodium	189	Titanium	X	Calcium	X	Magnesium	X	Boron	X	Manganese	X	Nickel	X	Molybdenum	2	Potassium	<2	Vanadium	X	Tin	<2	Lead	<2	Copper	9	Aluminum	<2	Chromium	<2	Iron	3	Phosphorus	X	Barium	X	Zinc	X

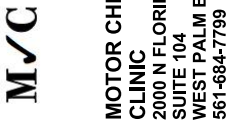
Contaminants		Physical Properties			
Sample ID	50994	Fuel	-	Visc Mode	C
		Soot	0.5	V100C Limit	12.5 - 16.3
		Water	<0.1	V40C Limit	92 - 124
		Glycol	-	VIndex	135
		Nitration	<2.0	TBN	8.2
		Oxidation	5.4	V100C	14.5
				V40C	110

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 535105759 Component Make: MTU Component Model: 12V2000 CR Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD MAIN Sump Capacity: 5 Quarts
MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 104 WEST PALM BEACH FL 33409 561-684-7799		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50995	5/10/2024	1000	100	15W40	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.									

Sample ID	Wear Metals(ppm)			Contaminant Metals (ppm)			Multi-Source Metals (ppm)			Additives (ppm)										
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
50995	<2	<2	<2	<2	<2	<2	X	3	5	<2	X	<2	X	X	X	X	X	X	X	X

Contaminants		Physical Properties	
Sample ID	50995	Fuel	-
		Soot	0.5
		Water	<0.1
		Glycol	-
		Nitration	2.3
		TBN	7.7
		Oxidation	5.8
		V40C	110
		V100C	14.5
		VIndex	135
		V40C Limit	92 - 124
		V100C Limit	12.5 - 16.3
		Visc Mode	C

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 50023642 Component Make: ZF Component Model: GENERAL Component Year: NA Component Type : GEARBOX Component Location: PORT Sump Capacity: 5 Quarts
		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50996	5/10/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: GEAR UNIT WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.									

Sample ID	Wear Metals(ppm)				Contaminant Metals (ppm)				Multi-Source Metals (ppm)				Additives (ppm)						
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Calcium	Barium	Phosphorus	Zinc
50996	<2	<2	<2	<2	67	<2	X	5	3	<2	X	8	X	X	X	X	X	X	X

Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	VIndex	V40C Limit	V100C Limit	Visc Mode
50996	X	X	<0.1	-	X	X	3.9	102	10.9	90	86 - 116	9.3 - 12.5	C

RPM DIESEL 2555 ST. RD. 84 FORT LAUDERDALE FL Phone: _____ Email: _____ Fax: _____	Machine ID: SEA CLASS Machine Year : NA Component Description:	Component ID: 50023 642 Component Make: ZF Component Model: GENERAL Component Year: NA Component Type : GEARBOX Component Location: STARBOARD Sump Capacity: 5 Quarts
<p>MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 104 WEST PALM BEACH FL 33409 561-684-7799</p>		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
50997	5/10/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	5/10/2024	
Comments: GEAR UNIT WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.									

Sample ID	Wear Metals(ppm)					Contaminant Metals (ppm)					Multi-Source Metals (ppm)					Additives (ppm)			
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Calcium	Barium	Phosphorus	Zinc
50997	<2	<2	<2	5	81	<2	X	5	3	<2	X	9	X	X	X	X	X	X	X

Contaminants		Physical Properties	
Sample ID	50997	Fuel	X
		Soot	X
		Water	<0.1
		Glycol	-
		Nitration	X
		TBN	X
		Oxidation	3.6
		V40C	102
		V100C	10.9
		VIndex	90
		V40C Limit	86 - 116
		V100C Limit	9.3 - 12.5
		Visc Mode	C